

Message Text

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ORIGIN COME-00

INFO OCT-01 CIAE-00 DODE-00 EB-07 NRC-05 NSAE-00 USIA-06

TRSE-00 EUR-12 ERDA-05 ISO-00 ACDA-07 NEA-10 EA-07

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DRAFTED BY COM/OEA RAGAREL, EPWALINSKY: AW

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TO USMISSION OECD PARIS

C O N F I D E N T I A L STATE 232961

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM, UR

SUBJECT: EXPORT OF EQUIPMENT FOR USE IN THE MANUFACTURE OF
LIQUID CRYSTALS TO THE USSR-IL 1355

REFS: (A) COCOM DOC. (76)1173; (B) COCOM DOC(76)1283

1) THE FOLLOWING IS IN RESPONSE TO UK QUESTIONS RECORDED
IN REF. B.

2) PHOTORESIST ROLLER COATING IS ONE OF THE EARLIEST
METHODS USED FOR APPLYING RESIST MATERIALS TO PC BOARDS.
EVEN IN THIS AREA OF PROCESSING IT IS UNRELIABLE FOR THIN
COATING WORK NECESSARY FOR PRECISION ETCHING.

3) DIAMOND SCRIBING IS NOT UNIQUE AND WOULD MAKE LITTLE
CONTRIBUTION TO MICROCIRCUIT PREPARATION.

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4) MANUAL SCREEN PRINTING IS NOT USED DIRECTLY FOR PRO-

DUCING MICROCIRCUITS, BUT IS USED FOR PLACING CIRCUIT PATTERNS ON CERAMIC BASES. THE UNITED STATES PROPOSAL AS OUTLINED IN COCOM DOC. REV(74)1355/8, RECOMMENDS DELETION OF SUBITEM 1355(C) UNDER WHICH THIS EQUIPMENT IS EMBARGOED.

5) THE SILICON DIOXIDE AND SILICON MONOXIDE DEPOSITION SYSTEMS COULD CONTRIBUTE TO MILITARY WORK BY LAYING DOWN ISOLATION LAYERS; HOWEVER, US AUTHORITIES BELIEVE IT UNLIKELY THAT TWO UNITS OF EQUIPMENT WOULD BE DIVERTED AT THE EXPENSE OF A LUCRATIVE PRODUCTION LINE DEDICATED TO LCD MANUFACTURING.

6) THE EXPOSURE SYSTEM LACKS, BY SEVERAL ORDERS OF MAGNITUDE, THE PRECISION NECESSARY FOR MICROCIRCUIT PRODUCTION.

7) THE RESISTIVITY PROBE IS COMPARABLE TO SEVERAL PROBES WHICH HAVE, IN THE PAST, BEEN APPROVED BY THE COMMITTEE (SEE COCOM DOCS.(74)1604 AND (75)841).

8) THE OPERATING CHARACTERISTICS OF THE SUBJECT EQUIPMENT, THE DESIGN OF THE LCD'S, AND THE METHODS WHICH ARE USED IN LCD PRODUCTION, HAVE CONVINCED US AUTHORITIES THAT THIS EQUIPMENT WILL BE UTILIZED EXCLUSIVELY FOR THE PRODUCTION OF LCD'S. ROBINSON

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